

Title (en)  
LOAD CELL

Title (de)  
LASTZELLE

Title (fr)  
CELLULE DE CHARGE

Publication  
**EP 1286146 A4 20070307 (EN)**

Application  
**EP 01934439 A 20010530**

Priority  
• JP 0104574 W 20010530  
• JP 2000162125 A 20000531

Abstract (en)  
[origin: US2002139203A1] A load cell 1 includes a strain body 2, a bridge circuit and a coating film 10. The bridge circuit is formed of a strain gauge 7 arranged on the strain body 2. The coating film 10 is formed on the strain body 2, covers at least a portion of the strain body 2 attached to a member made of a metal material dissimilar to the strain body and a strain occurring portion of the strain body 2 except for a portion to be attached to the strain gauge 7, includes a coating layer made of resin having a glass transition temperature of 40° C. or more, and has an electrical insulating property.

IPC 1-7  
**G01L 1/22**

IPC 8 full level  
**G01G 3/14** (2006.01); **G01L 1/22** (2006.01)

CPC (source: EP KR US)  
**G01G 3/14** (2013.01 - KR); **G01G 3/1412** (2013.01 - EP US); **G01L 1/2243** (2013.01 - EP US)

Citation (search report)  
• [X] JP H02193031 A 19900730 - KUBOTA LTD  
• [X] JP S63289431 A 19881125 - TOSHIBA CORP, et al  
• See references of WO 0192844A1

Citation (examination)  
• US 4630491 A 19861223 - KITAGAWA TOHRU [JP], et al  
• US 4628296 A 19861209 - KITAGAWA TOHRU [JP], et al  
• US 4633721 A 19870106 - NISHIYAMA YOSHIHISA [JP]  
• JP S5977303 A 19840502 - TOKYO ELECTRIC CO LTD  
• WO 9510021 A1 19950413 - HYSITRON INC [US]  
• US 4432247 A 19840221 - TAKENO SHOZO [JP], et al

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RU2469338C1; RU2469341C1; RU2469339C1; RU2469340C1; US10620061B2; WO2011115386A3

Designated contracting state (EPC)  
DE FR GB IT

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**US 2002139203 A1 20021003**; **US 6694829 B2 20040224**; AU 6066701 A 20011211; AU 753160 B2 20021010; CA 2380470 A1 20011206; CA 2380470 C 20070515; CN 1177200 C 20041124; CN 1380972 A 20021120; EP 1286146 A1 20030226; EP 1286146 A4 20070307; JP 2001343294 A 20011214; KR 100793119 B1 20080110; KR 20020021638 A 20020321; NZ 516832 A 20030725; TW 505778 B 20021011; WO 0192844 A1 20011206

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**US 5896602 A 20020130**; AU 6066701 A 20010530; CA 2380470 A 20010530; CN 01801538 A 20010530; EP 01934439 A 20010530; JP 0104574 W 20010530; JP 2000162125 A 20000531; KR 20017014802 A 20011120; NZ 51683201 A 20010530; TW 90113094 A 20010530